




A-Level Further Maths

Full course title and Exam Board	Pearson Edexcel Further Maths	Specification QR 						
Teacher(s)	Ms L Paraskeva lparaskeva@enfieldgrammar.org Mr V Yildiz vyildiz@enfieldgrammar.org							
Introduction	<p>For someone who enjoys mathematics, it provides a challenge and a chance to explore new and/or more sophisticated mathematical concepts.</p> <p>If you are planning to take a degree such as Engineering, Sciences, Computing, Finance/Economics, etc., or perhaps Mathematics itself, you will benefit enormously from taking Further Mathematics.</p> <p>Further Mathematics introduces new topics such as matrices and complex numbers that are vital in many STEM degrees. Students who have studied Further Mathematics find the transition to such degrees far more straightforward.</p>							
What is the course about?	<p>A level Further Mathematics is a separate A level that is usually taken in addition to taking A level Mathematics. Half of the content of this will be Further Pure and the remainder will be from options such as Mechanics, Statistics, Decision Mathematics or extra Further Pure.</p>							
How will I be assessed and what will I be studying?	<p>The department will follow The Pearson Edexcel Level 3 Advanced GCE in Further Mathematics, which consists of four externally examined papers. Students will be completing the following papers at the end of their final year in May/June. All four papers are: written examination, 1 hour 30 mins, 25% of the qualification, and worth 75 marks. Calculators can be used in all 4 examinations.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #fce4d6; padding: 5px;"> Paper 1: Further Pure Mathematics 1 (*Paper code: 9FM0/01): Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors </td> <td style="background-color: #fce4d6; padding: 5px;"> Paper 2: Further Pure Mathematics 2 (*Paper code: 9FM0/02): Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors </td> <td style="background-color: #fff9c4; padding: 5px;"> Paper 3: Further Mathematics Option 1 Students take one of the following four options: 3A: Further Pure Mathematics 3 3B: Further Statistics 1 3C: Further Mechanics 1 3D: Decision Mathematics 1 </td> </tr> <tr> <td colspan="3" style="background-color: #fff9c4; padding: 5px;"> Paper 4: Further Mathematics Option 2 (*Paper codes: 9FM0/4A-4G) Students take one of the following four options: 4A: Further Pure Mathematics 4, 4B: Further Statistics 1, 4C: Further Statistics 2, 4D: Further Mechanics 1, 4E: Further Mechanics 2, 4F: Decision Mathematics 1, 4G: Decision Mathematics 2. </td> </tr> </table>		Paper 1: Further Pure Mathematics 1 (*Paper code: 9FM0/01): Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors	Paper 2: Further Pure Mathematics 2 (*Paper code: 9FM0/02): Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors	Paper 3: Further Mathematics Option 1 Students take one of the following four options: 3A: Further Pure Mathematics 3 3B: Further Statistics 1 3C: Further Mechanics 1 3D: Decision Mathematics 1	Paper 4: Further Mathematics Option 2 (*Paper codes: 9FM0/4A-4G) Students take one of the following four options: 4A: Further Pure Mathematics 4, 4B: Further Statistics 1, 4C: Further Statistics 2, 4D: Further Mechanics 1, 4E: Further Mechanics 2, 4F: Decision Mathematics 1, 4G: Decision Mathematics 2.		
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Current Text book and further Reading	<p>Year 1 Edexcel <u>AS and A level Further Mathematics Core Pure Mathematics Book AS Textbook Edexcel AS and A level Further Mathematics Further Pure Mathematics 2 (A level Maths and Further Maths 2017)</u></p> <p>Year 2 <u><i>Edexcel A level Further Mathematics Core Pure Mathematics Book 2 Textbook (A level Maths and Further Maths 2017)</i></u></p> <p>Edexcel AS and A level Further Mathematics Further Pure Mathematics 1 (A level Maths and Further Maths 2017)</p>							
Future Career Directions	<p>Mathematics is key to most scientific disciplines so it could lead onto higher education courses in science related subjects as well as Mathematics, Engineering, Computer Science and Economics. With further training, you could go into a job related to Mathematics such as an Accountant, Engineer, Financial Adviser, Business Manager, Software Engineer or Teacher.</p>							



Subject Entry Requirements	Grade 8 in GCSE Mathematics.
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